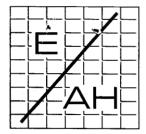


2906-08420



EnSafe / Allen & Hoshall

a joint venture for professional services

18

August 26, 1996

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Mr. Paul Bergstrand
South Carolina Department of Health
and Environmental Control
2600 Bull Street
Columbia, SC 29201

RE: Revised Request for Approval of Monitoring Well Installation Zones D, F, and G Naval Base Charleston, Charleston, South Carolina

Dear Mr. Bergstrand:

Per your conversation with Mr. Todd Haverkost of E/A&H on August 26, 1996, the request for approval letter has been revised. A minimum of 32 shallow monitoring wells will be installed using hollow stem auger methods to an approximate depth of 15 feet below ground surface. The five deep monitoring wells will be completed at the top of the Cooper Formation using rotosonic drilling methods. This depth varies across the zones from approximately 25 to 65 feet below ground surface. The sample locations are referenced in Sections 2 and 3 of the Final Zones D, F, and G Work Plan, June 13, 1996.

This submittal fulfills the requirements for notification to SCDHEC as stated in the South Carolina Well Standards and Regulations Document R.61-71. The drilling subcontractor is tentatively scheduled to initiate drilling activities on Tuesday, August 27, 1996.

If you have any questions, comments or need additional information, please do not hesitate to call me at (904) 479-4595 or Mr. Peter Bayley (803) 884-0029 or onsite at NAVBASE Charleston (803) 747-0336. We look forward to hearing from you on this matter.

Sincerely.

EnSafe/Allen & Hoshall

By: Craig R. Smith

Task Order Manager

Tony Hunt, SOUTHDIV

cc: Todd Haverkost, SCSafe

Doyle Brittain, USEPA Region IV

CTO-2907, file



Commissioner: Douglas E. Bryant

Board: John H. Burriss, Chairman

William M. Hull, Jr., MD, Vice Chairman

Roger Leaks, Jr., Secretary

Promoting Health, Protecting the Environment

Richard E. Jabbour, DDS Cyndi C. Mosteller Brian K. Smith Rodney L. Grandy

30 August 1996

CERTIFIED MAIL

Commander Paul Rose
Officer In Charge, Caretakers Site Office
Naval Facilities Engineering Command, Southern Division
Building NH-45
Charleston Naval Base
Charleston, SC 29408-2020

RE:

Zone D,F & G Monitoring Well Request, Dated 26 August 1996 (Smith to Bergstrand)

Naval Base Charleston Charleston County SC0-170-022-560

Dear Cdr Rose:

The above referenced request has been reviewed with respect to R.61-79.265 Subpart F of the South Carolina Hazardous Waste Management Regulations and R.61-71 of the South Carolina Well Standards and Regulations. This request is for the installation of 25 monitoring wells to assess potential contamination of the surficial and intermediate aquifer. The deepest monitoring wells are anticipated to be completed to approximately 65 feet.

Attached, please find a Monitoring Well Approval Form and a copy of the proposed well locations per Figures 2-2, 2-3, 2-4, 2-5, 2-9, 2-11, 2-15, 2-17, 2-18, 2-19, 2-21 of the 13 June 1996 Workplan. A copy of this monitor well approval form should be on site during drilling operations. Please be advised, this monitoring well approval should not be construed as concurrence with the June 1996 Zone D, F & G Workplan and the recommendations contained therein. Additional assessment may be required at any of these locations. Should there be any questions, please contact me at 803-896-4016.

Respectfully,

Paul M. Bergstrand, Hydrogeologist

Hazardous Waste Section Division of Hydrogeology

Bureau of Solid and Hazardous Waste

Enclosures; Maps, HW-96-0076

CC: Christine Sanford-Coker, Trident District EOC

Johnny Tapia, Hazardous Waste Permitting Section

zekand

Tony Hunt, Southern Division

Todd Haverkost, EnSafe, 935 Houston Northcutt Blvd., Mt. Pleasant, SC 29464

DD960847.PMB





Commissioner: Douglas E. Bryant

Board: John H. Burriss, Chairman

William M. Hull, Jr., MD, Vice Chairman

Roger Leaks, Jr., Secretary

Promoting Health, Protecting the Environment

Richard E. Jabbour, DDS Cyndi C. Mosteller Brian K. Smith Rodney L. Grandy

Monitoring Well Installation Approval

Approval is hereby granted to: for

Various Locations, Zones D, F & G per Figures 2-2, 2-3, 2-4, 2-5, 2-9, 2-11, 2-15, 2-17, 2-18, 2-19, 2-21. Charleston Naval Shipyard/Base Charleston County

RCRA Permit # SC0-170-022-560

for the construction of monitoring wells designated in accordance with the construction plans and specifications submitted to the Department on 26 August 1996 (Smith to Bergstrand).

The wells will be constructed within the surficial and intermediate aquifers to the approximate depth of 15 and 65 feet respectively below the surface and screened for the purpose of monitoring aquifer conditions.

Conditions:

- 1. A driller certified to operate in the State of South Carolina must install the monitoring wells.
- The drillers certification number, the latitude and longitude and the actual construction details for each well be submitted with the report of laboratory findings.
- 3. All monitoring wells must be developed until temperature, specific conductivity and turbidity measurements stabilize and the well produces clear, sediment-free water. Submit a record of these measurements with the well construction details.
- 4. All drill cuttings from the boreholes and purge water from well development must be contained. The containerized materials must be analyzed for disposal utilizing the same methods as the samples.
- 5. Contact Christine Sanford-Coker, Trident District EQC Hydrogeologist, during normal husiness hours at (803) 740-1590 at least 48 hours before installation of the wells.

This approval is pursuant to the provisions of Section 44-55-40 of the 1976 South Carolina Code of Laws and the Department of Health and Environmental Control Well Standards and Regulations, R.61-71.

Date of Issue: 30 August 1996

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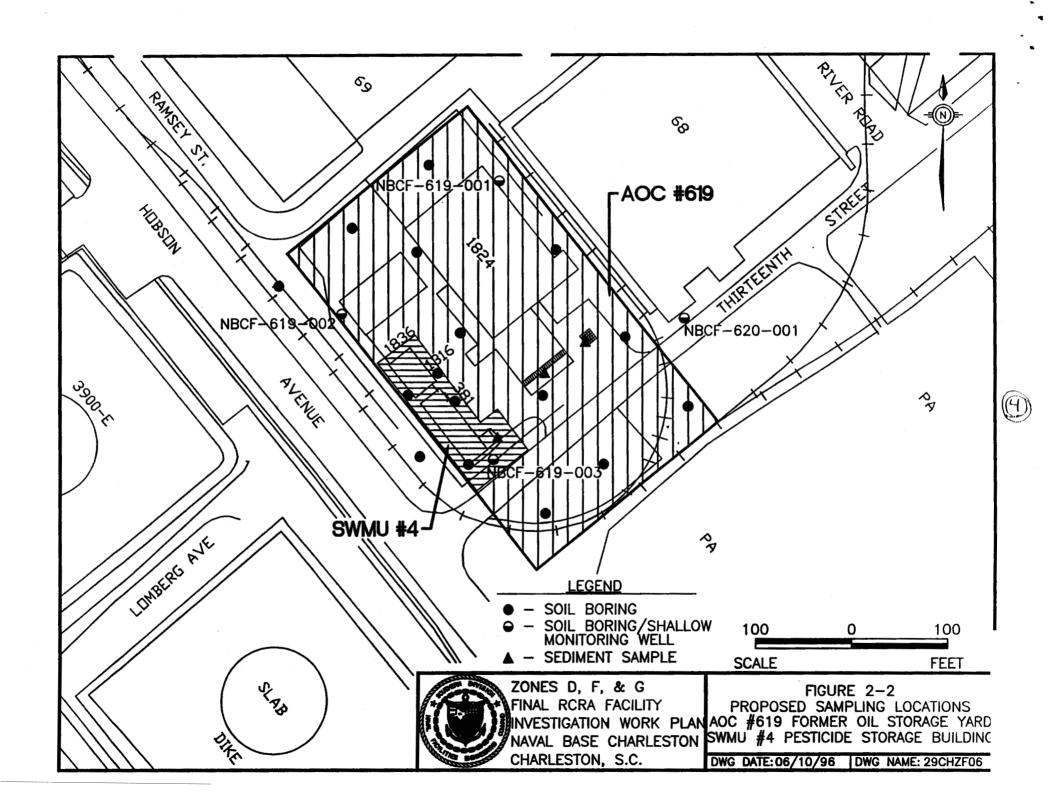
Approval Number: HW-96-0076

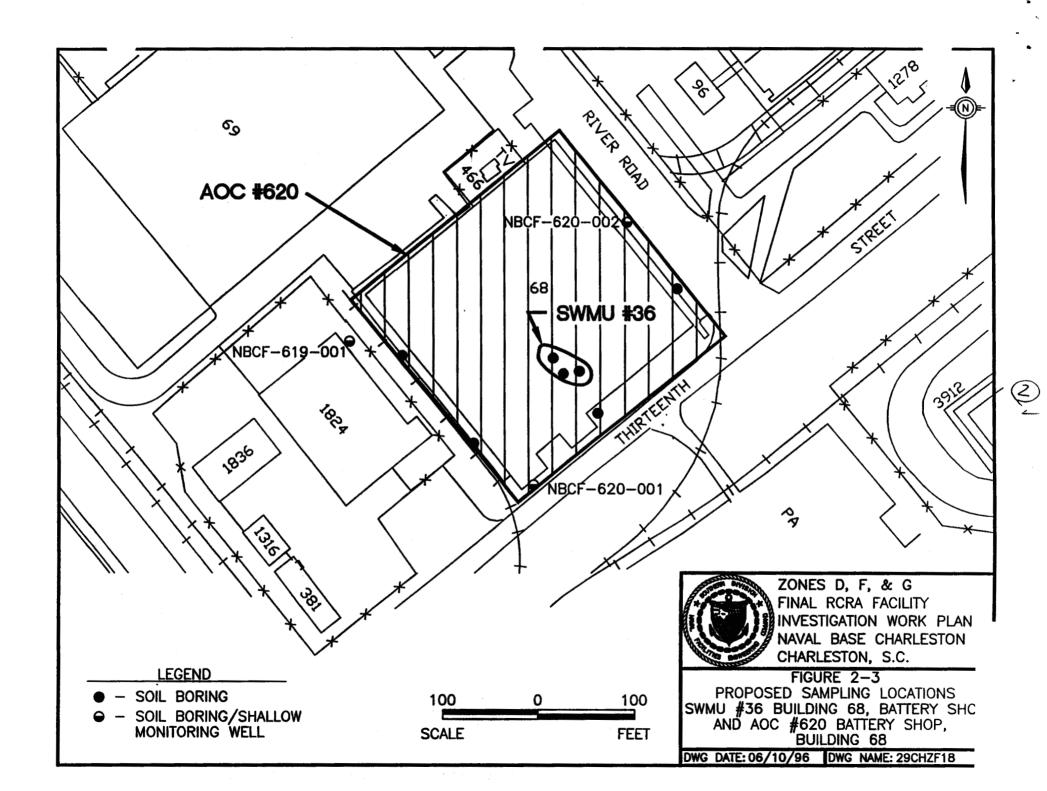
Paul M. Bergstrand, Hydrologist

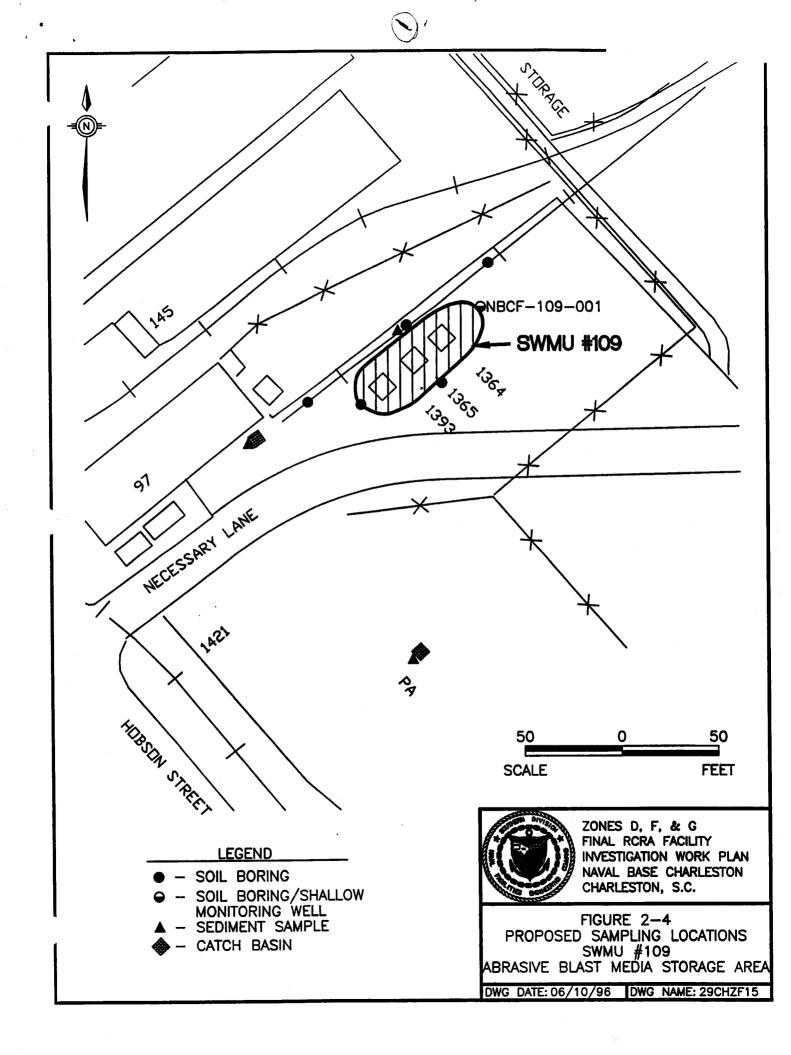
Hazardous Waste Section Division of Hydrogeology

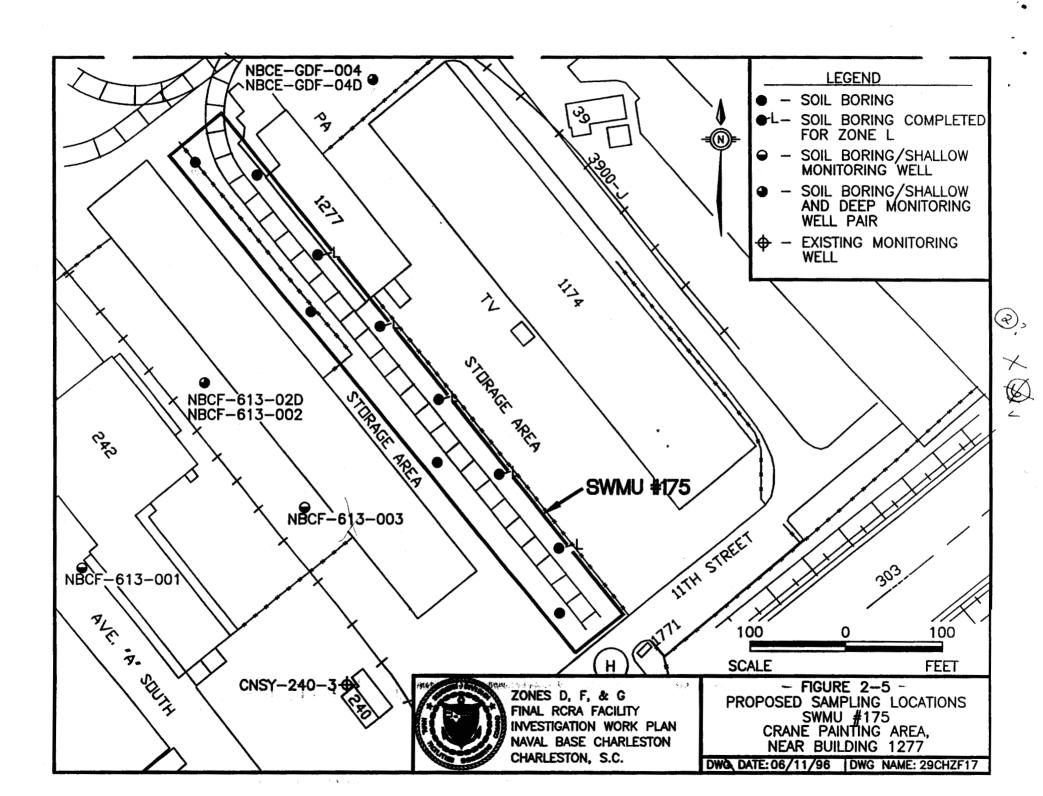
Bureau of Solid and Hazardous Waste

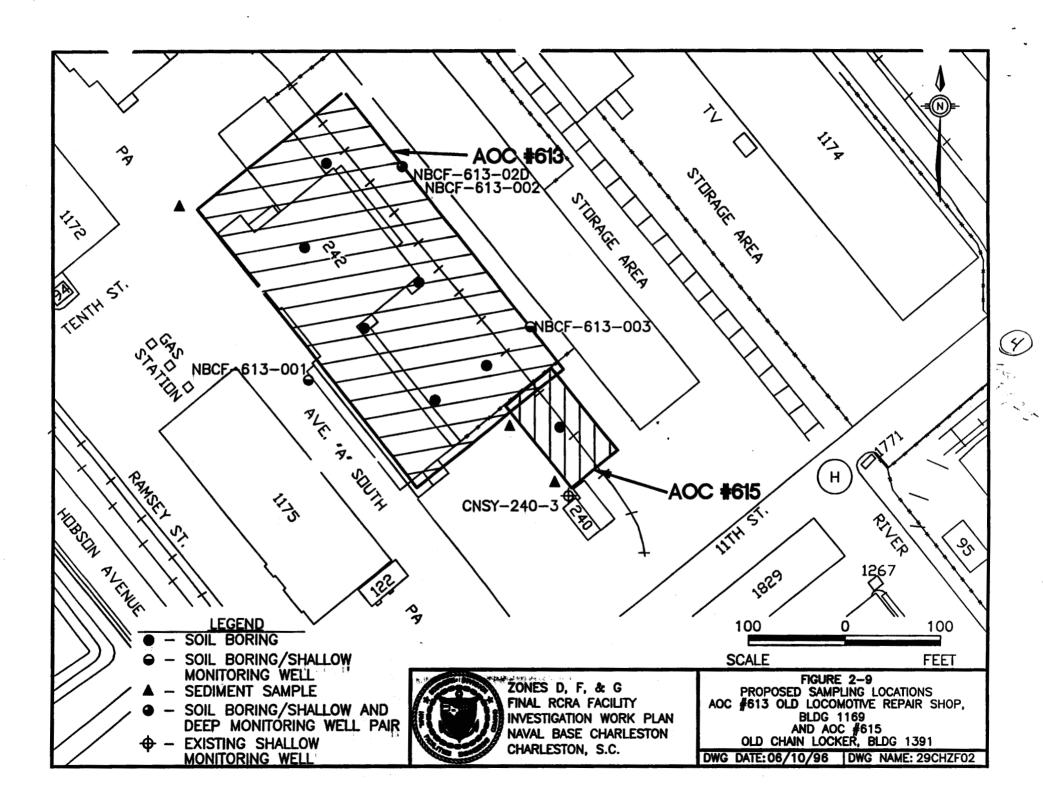
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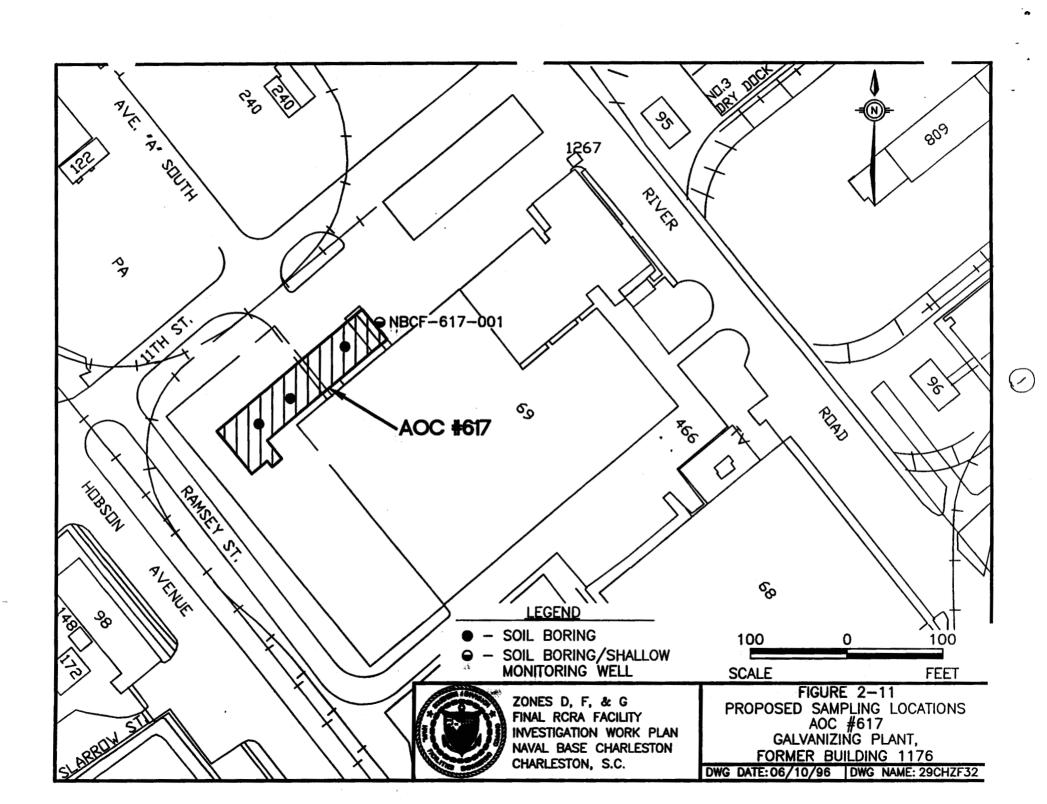












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